



## MOHAMMAD MEHEDI HASSAN, PhD

Associate Professor, Information Systems Department

College of Computer and Information Sciences

Phone: +96614695202 (Office), +966561398797 (Mob)

Email: mmhassan@ksu.edu.sa

Web: <http://fac.ksu.edu.sa/mmhassan/>

Google Scholar Link: <https://scholar.google.com/citations?user=cxQ9a8AAAAAJ&hl=en>

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## **Biographical Sketch**

**Dr. Mohammad Mehedi Hassan (MIEEE'12)** is currently an Associate Professor of *Information Systems Department* in the *College of Computer and Information Sciences (CCIS)*, King Saud University (KSU), Riyadh, Kingdom of Saudi Arabia. He received his Ph.D. degree in Computer Engineering from Kyung Hee University, South Korea in February 2011. He was a Post-Doctoral Fellow at Computer Engineering Department, Kyung Hee University, South Korea from March, 2011 to November, 2011. He is one of the founding members of Chair of Pervasive and Mobile Computing (CPMC) at CCIS, KSU and successfully managing its research program, which transformed the chair as one of the best chairs of research excellence in the college. He received **Best Paper Award** from CloudComp 2014 conference at China in 2014. He also received **Excellence in Research Award** from CCIS, KSU in **2015 and 2016**.

Dr. Hassan has published over 100+ research papers in the journals and conferences of international repute such as *IEEE Wireless Communication Magazine*, *IEEE Network Magazine*, *IEEE Communication Magazine*, *IEEE Transaction on Computers*, *IEEE Transaction on Services Computing*, *Future Generation Computing Systems*, *ACM Multimedia conference*, etc. He has served as, chair, and Technical Program Committee member in numerous international conferences/workshops such as IEEE CCNC, ACM BodyNets, IEEE HPCC etc. He has also played role of the guest editor of several international ISI-indexed journals. He is currently an Associate Editor of IEEE Access Journal. He has secured several national and international research grants in the domain of cloud computing and sensor network. His research areas of interest are cloud federation, multimedia cloud, Body sensor network, Internet of things, Big data, mobile cloud, cloud security, IPTV, sensor network, 5G network, social network, publish/subscribe system and recommender system.

## **A. Education**

- **Ph.D. in Computer Engineering** 2007- 2010  
Kyung Hee University, Global Campus, South Korea  
Thesis: *Market-Oriented Dynamic Cloud Collaboration Platform*
- **B.Sc. in Computer Science and Information Technology** 1999 - 2003  
Islamic University of Technology (IUT), Boardbazar, Dhaka, Bangladesh  
Thesis: *A Rate based Congestion Control Algorithm for Available-Bit-Rate Service in ATM Network*

## **B. Professional Work Experience**

- **Associate Professor**, Information Systems Department, College of Computer and Information Sciences (CCIS), King Saud University, Riyadh Saudi Arabia 2017- Present
- **Assistant Professor**, Information Systems Department, College of Computer and Information Sciences (CCIS), King Saud University, Riyadh Saudi Arabia 2011- 2016
- **Post-Doctoral Fellow**, Computer Engineering Dept, Kyung Hee University, South Korea 2010-2011
- **Teaching Assistant**, Computer Engg Dept. Kyung Hee University, South Korea 2007-2010

## C. Honors and Awards

- **Outstanding Paper Award:** The 18th IEEE International Conference on Advanced Communications Technology, Phoenix Park, Pyeongchang, South Korea Feb 2016  
Paper: Effective QoS-aware Novel Resource Allocation Model for Body Sensor-Integrated Cloud platform
- **Excellence in Research Award (2014 & 2015),** College of Computer and Information Sciences, King Saud University, Riyadh, Saudi Arabia 2015 & 2016
- **Best Paper Award,** The 5th EAI International Conference on Cloud Computing, China, Springer, Paper: A Hybrid Remote Rendering Approach for Graphic Applications on Cloud Computing Oct 2014
- **Korean Government IT Scholarship** for International Students for MS-PhD (Supported By the IITA - Institute for Information Technology Advancement) 2007 - 2010
- **President Scholarship** for Supporting Tuition Fees in Kyung Hee University, Korea 2007- 2010
- **Organization of Islamic Conference (OIC) Scholarship** in B.Sc., Bangladesh 2000 - 2003

## D. Research Interests

- Cloud computing
  - Market-oriented Cloud, Multimedia Cloud, Cloud Federation, Sensor-Cloud, Mobile Cloud, Cloud-based Serious Game, Health Cloud, IPTV on Cloud, Thin Client, Remote Display
- Pervasive Sensors and Networks
  - Internet of Things (IoT), Wearable Computing, Wireless Sensor Network, Body Sensor Network, Cognitive Radio Sensor Network, 5G Network, Smart Home, Human Computer Interaction, Context-aware Computing , Publish/Subscribe System
- Big Data
  - Social Big Data analytics, Trust in Social network, QoS-aware Big Data processing, Big Data in Cloud, Big Data Mining, Privacy and Security in Big Data
- Recommender System
  - Health Care Recommender System, Cloud Service Recommender System

## E. Research Grants at King Saud University (KSU, 2011-2016)

- **Principal Investigator,** *Seamless Integration of Body Sensor Network and Cloud Computing for Pervasive Healthcare (National Project, NPST, KSU),* Ongoing
- **Co-Investigator,** *Enabling Cloud-based Mobile Multimedia Services in KSA (National Project, NPST, KSU)* Completed
- **Co-Investigator,** *Driver Distraction Management System in KSA Using Sensor-Cloud Technology (NPST National Project, KSU)* Accepted

## **F. Refereed Publications**

### **Publication Summary (2008-2017)**

ISI-Indexed Published Journals	<b>107</b>
Conference Papers	<b>33</b>
Authored Book	<b>2</b>
Google Scholar Citations	<b>1976</b>
Google Scholar h-index	<b>23</b>

## **I. ISI-Indexed (SCI/E) Journals**

### **Year 2018**

- [j107] Mohammad Mehedi Hassan, Md. Shamsul Huda, John Yearwood, Herbert F. Jelinek, Ahmad Almogren: Multistage fusion approaches based on a generative model and multivariate exponentially weighted moving average for diagnosis of cardiovascular autonomic nerve dysfunction. Information Fusion 41: 105-118 (2018)

### **Year 2017**

- [j106] Mohammed Mehedi Hassan, Md Zia Uddin, Amr Mohamed, and Ahmad Almogren. "A robust human activity recognition system using smartphone sensors and deep learning." Future Generation Computer Systems (2017).
- [j105] Islam, Maheen, Md Abdur Razzaque, Md Mamun-Or-Rashid, Mohammad Mehedi Hassan, Abdulhameed Alelaiwi, and Atif Alamri. "Traffic Engineering in Cognitive Mesh Networks: Joint Link-Channel Selection and Power Allocation." Computer Communications (2017).
- [j104] Ferdous, Jannatul, Md Parvez Mollah, Md Abdur Razzaque, Mohammad Mehedi Hassan, Atif Alamri, Giancarlo Fortino, and MengChu Zhou. "Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid." IEEE Transactions on Systems, Man, and Cybernetics: Systems (2017).
- [j103] Alali, Mansour, Ahmad Almogren, Mohammad Mehedi Hassan, Iehab AL Rassin, and Md Zakirul Alam Bhuiyan. "Improving risk assessment model of cyber security using fuzzy logic inference system." Computers & Security (2017).
- [j102] Al-Qurishi, Muhammad, Majed Alrubaian, Sk Md Mizanur Rahman, Atif Alamri, and Mohammad Mehedi Hassan. "A prediction system of Sybil attack in social network using deep-regression model." Future Generation Computer Systems (2017).
- [j101] Hamid, Md Abdul, M. Abdullah-Al-Wadud, Mohammad Mehedi Hassan, Ahmad Almogren, Atif Alamri, Abu Raihan M. Kamal, and Md Mamun-Or-Rashid. "A key distribution scheme for secure communication in acoustic sensor networks." Future Generation Computer Systems (2017).
- [j100] Wu, Tingmin, Sheng Wen, Shigang Liu, Jun Zhang, Yang Xiang, Majed Alrubaian, and Mohammad Mehedi Hassan. "Detecting spamming activities in twitter based on deep-learning technique." Concurrency and Computation: Practice and Experience 29, no. 19 (2017)
- [j99] Almasoud, Suliman K., Ahmad Almogren, Mohammad Mehedi Hassan, and Iehab Alrassin. "An efficient approach of improving privacy and security in online social networks." Concurrency and Computation: Practice and Experience

(2017).

- [j98] Li, Bingbing, Limei Peng, Yixue Hao, Yiming Miao, and Mohammad Mehedi Hassan. "Energy-efficient multiperiod planning of optical core network to support 5G networks." *Transactions on Emerging Telecommunications Technologies* (2017).
- [j97] Majed Alrubaian,, Muhammad Al-Qurishi, Mohammad Mehedi Hassan, and Atif Alamri,. A Credibility Analysis System for Assessing Information on Twitter. *IEEE Transactions On Dependable and Secure Computing*, Online First, (2017)
- [j96] Afrin, Mahbuba, Md Abdur Razzaque, Iffat Anjum, Mohammad Mehedi Hassan, and Atif Alamri: Tradeoff between User Quality-Of-Experience and Service Provider Profit in 5G Cloud Radio Access Network. *Sustainability*, Vol. 9, no. 11 (2017): 2127.
- [j95] Sayef Azad Sakin, Md. Abdur Razzaque, Mohammad Mehedi Hassan OrcID, Atif Alamri, Nguyen H. Tran and Giancarlo Fortino: Self-Coexistence among IEEE 802.22 Networks- Distributed Allocation of Power and Channel, *Sensors* 2017, 17(12), 2838; doi:10.3390/s17122838
- [j94] Md. Zia Uddin, Mohammad Mehedi Hassan, Ahmad Almogren, Atif Alamri, Majed A. AlRubaian, Giancarlo Fortino: Facial Expression Recognition Utilizing Local Direction-Based Robust Features and Deep Belief Network. *IEEE Access* 5: 4525-4536 (2017)
- [j93] Md. Mofijul Islam, Md. Abdur Razzaque, Mohammad Mehedi Hassan, Walaa N. Ismail, Biao Song: Mobile Cloud-Based Big Healthcare Data Processing in Smart Cities. *IEEE Access* 5: 11887-11899 (2017)
- [j92] Mohammad Mehedi Hassan, Hanouf Albakr, Hmood Al-Dossari, Amr Mohamed: Resource Provisioning for Cloud-Assisted Body Area Network in a Smart Home Environment. *IEEE Access* 5: 13213-13224 (2017)
- [j91] Selina Sharmin, Fernaz Narin Nur, Md. Abdur Razzaque, Md. Mustafizur Rahman, Ahmad Almogren, Mohammad Mehedi Hassan: Tradeoff Between Sensing Quality and Network Lifetime for Heterogeneous Target Coverage Using Directional Sensor Nodes. *IEEE Access* 5: 15490-15504 (2017)
- [j90] Md. Zia Uddin, Mohammad Mehedi Hassan, Ahmad Almogren, Mansour Zuair, Giancarlo Fortino, Jim Tørresen: A facial expression recognition system using robust face features from depth videos and deep learning. *Computers & Electrical Engineering* 63: 114-125 (2017)
- [j89] Amit Kumar Das, Tamal Adhikary, Md. Abdur Razzaque, Majed A. AlRubaian, Mohammad Mehedi Hassan, Md. Zia Uddin, Biao Song: Big media healthcare data processing in cloud: a collaborative resource management perspective. *Cluster Computing* 20(2): 1599-1614 (2017)
- [j88] Jemal H. Abawajy, Mohammad Mehedi Hassan: Federated Internet of Things and Cloud Computing Pervasive Patient Health Monitoring System. *IEEE Communications Magazine* 55(1): 48-53 (2017)
- [j87] Selina Sharmin, Fernaz Narin Nur, Md. Abdur Razzaque, Md. Mustafizur Rahman, Abdulhameed Alelaiwi, Mohammad Mehedi Hassan, Sk. Md. Mizanur Rahman:  $\alpha$ -Overlapping area coverage for clustered directional sensor networks. *Computer Communications* 109: 89-103 (2017)
- [j86] Majed A. AlRubaian, Muhammad Al-Qurishi, Mabrook Al-Rakhami, Mohammad Mehedi Hassan, Atif Alamri: Reputation-based credibility analysis of Twitter social network users. *Concurrency and Computation: Practice and Experience* 29(7) (2017)
- [j85] Xian Chen, Wenzhi Chen, Zhongyong Lu, Yu Zhang, Rui Chang, Mohammad Mehedi Hassan, Abdulhameed Alelaiwi, Yang Xiang: MBSA: a lightweight and flexible storage architecture for virtual machines. *Concurrency and Computation: Practice and Experience* 29(16) (2017)
- [j84] Tingmin Wu, Sheng Wen, Shigang Liu, Jun Zhang, Yang Xiang, Majed A. AlRubaian, Mohammad Mehedi Hassan: Detecting spamming activities in twitter based on deep-learning technique. *Concurrency and Computation: Practice and Experience* 29(19) (2017)
- [j83] Abdullah Al-Tariq, Abu Raihan Mostofa Kamal, Md. Abdul Hamid, Mohammad Abdullah-Al-Wadud, Mohammad Mehedi Hassan, Sk. Md. Mizanur Rahman: A scalable framework for protecting user identity and access pattern in untrusted Web server using forward secrecy, public key encryption and bloom filter. *Concurrency and Computation:*

- [j82] Fernaz Narin Nur, Selina Sharmin, Md. Ahsan Habib, Md. Abdur Razzaque, Md. Shariful Islam, Ahmad Almogren, Mohammad Mehedi Hassan, Atif Alamri: Collaborative neighbor discovery in directional wireless sensor networks: algorithm and analysis. *EURASIP J. Wireless Comm. and Networking* 2017: 119 (2017)
- [j81] Bingbing Li, Limei Peng, Yixue Hao, Yiming Miao, Mohammad Mehedi Hassan: Energy-efficient multiperiod planning of optical core network to support 5G networks. *Trans. Emerging Telecommunications Technologies* 28(9) (2017)
- [j80] Mohammad Mehedi Hassan, Kai Lin, Xuejun Yue, Jiafu Wan: A multimedia healthcare data sharing approach through cloud-based body area network. *Future Generation Comp. Syst.* 66: 48-58 (2017)
- [j79] Yanming Sun, Min Chen, Long Hu, Yongfeng Qian, Mohammad Mehedi Hassan: ASA: Against statistical attacks for privacy-aware users in Location Based Service. *Future Generation Comp. Syst.* 70: 48-58 (2017)
- [j78] Chao Chen, Sheng Wen, Jun Zhang, Yang Xiang, Jonathan Oliver, Abdulhameed Alelaiwi, Mohammad Mehedi Hassan: Investigating the deceptive information in Twitter spam. *Future Generation Comp. Syst.* 72: 319-326 (2017)
- [j77] Syed Khairuzzaman Tanbeer, Mohammad Mehedi Hassan, Ahmad Almogren, Mansour Zuair, Byeong-Soo Jeong: Scalable regular pattern mining in evolving body sensor data. *Future Generation Comp. Syst.* 75: 172-186 (2017)
- [j76] Md. Shamsul Huda, Suruz Miah, Mohammad Mehedi Hassan, Md. Rafiqul Islam, John Yearwood, Majed A. AlRubaian, Ahmad Almogren: Defending unknown attacks on cyber-physical systems by semi-supervised approach and available unlabeled data. *Inf. Sci.* 379: 211-228 (2017)
- [j75] Kun He, Jing Chen, Yu Zhang, Ruiying Du, Yang Xiang, Mohammad Mehedi Hassan, Abdulhameed Alelaiwi: Secure independent-update concise-expression access control for video on demand in cloud. *Inf. Sci.* 387: 75-89 (2017)
- [j74] Tamal Adhikary, Amit Kumar Das, Md. Abdur Razzaque, Majed A. AlRubaian, Mohammad Mehedi Hassan, Atif Alamri: Quality of service aware cloud resource provisioning for social multimedia services and applications. *Multimedia Tools Appl.* 76(12): 14485-14509 (2017)
- [j73] Walaa N. Ismail, Mohammad Mehedi Hassan: Mining Productive-Associated Periodic-Frequent Patterns in Body Sensor Data for Smart Home Care. *Sensors* 17(5): 952 (2017)
- [j72] Yixue Hao, Limei Peng, Huimin Lu, Mohammad Mehedi Hassan, Atif Alamri: Energy Harvesting Based Body Area Networks for Smart Health. *Sensors* 17(7): 1602 (2017)
- [j71] Noura Alhakbani, Mohammad Mehedi Hassan, Mourad Ykhlef: An Effective Semantic Event Matching System in the Internet of Things (IoT) Environment. *Sensors* 17(9): 2014 (2017)
- [j70] Yin Zhang, Meikang Qiu, Chun-Wei Tsai, Mohammad Mehedi Hassan, Atif Alamri: Health-CPS: Healthcare Cyber-Physical System Assisted by Cloud and Big Data. *IEEE Systems Journal* 11(1): 88-95 (2017)
- [j69] Caifeng Zou, Daqiang Zhang, Jiafu Wan, Mohammad Mehedi Hassan, Jaime Lloret: Using Concept Lattice for Personalized Recommendation System Design. *IEEE Systems Journal* 11(1): 305-314 (2017)
- [j68] Mohammad Mehedi Hassan, Mohammad Abdullah-Al-Wadud, Ahmad Almogren, Biao Song, Atif Alamri: Energy-Aware Resource and Revenue Management in Federated Cloud: A Game-Theoretic Approach. *IEEE Systems Journal* 11(2): 951-961 (2017)
- [j67] Md. Zakirul Alam Bhuiyan, Jie Wu, Guojun Wang, Tian Wang, Mohammad Mehedi Hassan: e-Sampling: Event-Sensitive Autonomous Adaptive Sensing and Low-Cost Monitoring in Networked Sensing Systems. *TAAS* 12(1): 1:1-1:29 (2017)
- [j66] Fernaz Narin Nur, Selina Sharmin, Md. Abdur Razzaque, Md. Shariful Islam, Mohammad Mehedi Hassan: A Low Duty Cycle MAC Protocol for Directional Wireless Sensor Networks. *Wireless Personal Communications* 96(4): 5035-5059 (2017)

## **Year 2016**

- [j65] Md. Shamsul Huda, John Yearwood, Herbert F. Jelinek, Mohammad Mehedi Hassan, Giancarlo Fortino, Michael Buckland: A Hybrid Feature Selection With Ensemble Classification for Imbalanced Healthcare Data: A Case Study for Brain Tumor Diagnosis. *IEEE Access* 4: 9145-9154 (2016)
- [j64] Maheen Islam, Md. Abdur Razzaque, Md. Mamun-Or-Rashid, Mohammad Mehedi Hassan, Ahmad Almogren, Abdulhameed Alelaiwi: Dynamic traffic engineering for high-throughput data forwarding in wireless mesh networks. *Computers & Electrical Engineering* 56: 130-144 (2016)
- [j63] Kai Lin, Wenjian Wang, Yuanguo Bi, Meikang Qiu, Mohammad Mehedi Hassan: Human localization based on inertial sensors and fingerprints in the Industrial Internet of Things. *Computer Networks* 101: 113-126 (2016)
- [j62] Nusrat Mehajabin, Md. Abdur Razzaque, Mohammad Mehedi Hassan, Ahmad Almogren, Atif Alamri: Energy-sustainable relay node deployment in wireless sensor networks. *Computer Networks* 104: 108-121 (2016)
- [j61] Biao Song, Mohammad Mehedi Hassan, Atif Alamri, Abdulhameed Alelaiwi, Yuan Tian, Mukaddim Pathan, Ahmad Almogren: A two-stage approach for task and resource management in multimedia cloud environment. *Computing* 98(1-2): 119-145 (2016)
- [j60] Yuxin Mao, Ping Zhu, Guiyi Wei, Mohammad Mehedi Hassan, M. Anwar Hossain: A game-based incentive model for service cooperation in VANETs. *Concurrency and Computation: Practice and Experience* 28(3): 674-687 (2016)
- [j59] Mohammad Mehedi Hassan, Mohammad Abdullah-Al-Wadud, Ahmad Almogren, Sk. Md. Mizanur Rahman, Abdulhameed Alelaiwi, Atif Alamri, Md. Abdul Hamid: QoS and trust-aware coalition formation game in data-intensive cloud federations. *Concurrency and Computation: Practice and Experience* 28(10): 2889-2905 (2016)
- [j58] Madiha Tabassum, Md. Abdur Razzaque, Mohammad Mehedi Hassan, Ahmad Almogren, Atif Alamri: Interference-aware high-throughput channel allocation mechanism for CR-VANETs. *EURASIP J. Wireless Comm. and Networking* 2016: 2 (2016)
- [j57] Asma Enayet, Nusrat Mehajabin, Md. Abdur Razzaque, Choong Seon Hong, Mohammad Mehedi Hassan: PowerNap: a power-aware distributed Wi-Fi access point scheduling algorithm. *EURASIP J. Wireless Comm. and Networking* 2016: 27 (2016)
- [j56] Iffat Anjum, Md. Abdur Razzaque, Mohammad Mehedi Hassan, Abdulhameed Alelaiwi, Sk. Md. Mizanur Rahman: Quality-of-service-aware weighted-fair medium access control protocol for coexisting cognitive radio networks. *EURASIP J. Wireless Comm. and Networking* 2016: 77 (2016)
- [j55] Sk. Md. Mizanur Rahman, M. Anwar Hossain, Mohammad Mehedi Hassan, Atif Alamri, Abdullah S. Alghamdi, Mukaddim Pathan: Secure privacy vault design for distributed multimedia surveillance system. *Future Generation Comp. Syst.* 55: 344-352 (2016)
- [j54] Bei Wang, Yuxia Cheng, Wenzhi Chen, Qinming He, Yang Xiang, Mohammad Mehedi Hassan, Abdulhameed Alelaiwi: Efficient consolidation-aware VCPU scheduling on multicore virtualization platform. *Future Generation Comp. Syst.* 56: 229-237 (2016)
- [j53] Md. Motaharul Islam, Mohammad Mehedi Hassan, Atif Alamri, Eui-Nam Huh: Data classification and scheduling for sensor virtualisation scheme in public healthcare system. *IJSNet* 22(4): 259-273 (2016)
- [j52] Xuejiao Liu, Yingjie Xia, Wenzhi Chen, Yang Xiang, Mohammad Mehedi Hassan, Abdulhameed Alelaiwi: SEMD: Secure and efficient message dissemination with policy enforcement in VANET. *J. Comput. Syst. Sci.* 82(8): 1316-1328 (2016)
- [j51] Tamal Adhikary, Amit Kumar Das, Md. Abdur Razzaque, Ahmad Almogren, Majed A. AlRubaian, Mohammad Mehedi Hassan: Quality of Service Aware Reliable Task Scheduling in Vehicular Cloud Computing. *MONET* 21(3): 482-493 (2016)
- [j50] Mahbub E. Khoda, Md. Abdur Razzaque, Ahmad Almogren, Mohammad Mehedi Hassan, Atif Alamri, Abdulhameed Alelaiwi: Efficient Computation Offloading Decision in Mobile Cloud Computing over 5G Network. *MONET* 21(5): 777-792 (2016)

- [j49] Atif Alamri, M. Shamim Hossain, Ahmad Almogren, Mohammad Mehedi Hassan, Khalid Al-Nafjan, Mohammed Zakariah, Lee Seyam, Abdullah Sharaf Alghamdi: QoS-adaptive service configuration framework for cloud-assisted video surveillance systems. *Multimedia Tools Appl.* 75(21): 13333-13348 (2016)
- [j48] Biao Song, Mohammad Mehedi Hassan, Yuan Tian, M. Shamim Hossain, Atif Alamri: Remote display solution for video surveillance in multimedia cloud. *Multimedia Tools Appl.* 75(21): 13375-13396 (2016)
- [j47] Sk. Md. Mizanur Rahman, Md. Mehedi Masud, M. Anwar Hossain, Abdulhameed Alelaiwi, Mohammad Mehedi Hassan, Atif Alamri: Privacy preserving secure data exchange in mobile P2P cloud healthcare environment. *Peer-to-Peer Networking and Applications* 9(5): 894-909 (2016)
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- [j45] Kai Lin, Min Chen, Jing Deng, Mohammad Mehedi Hassan, Giancarlo Fortino: Enhanced Fingerprinting and Trajectory Prediction for IoT Localization in Smart Buildings. *IEEE Trans. Automation Science and Engineering* 13(3): 1294-1307 (2016)
- [j44] Chao Chen, Jun Zhang, Yi Xie, Yang Xiang, Wanlei Zhou, Mohammad Mehedi Hassan, Abdulhameed Alelaiwi: Comments and Corrections. *IEEE Trans. Comput. Social Systems* 3(1): 42 (2016)
- [j43] Yantao Sun, Min Chen, Limei Peng, Mohammad Mehedi Hassan, Abdulhameed Alelaiwi: MatrixDCN: a high performance network architecture for large-scale cloud data centers. *Wireless Communications and Mobile Computing* 16(8): 942-959 (2016)
- [j42] Madiha Tabassum, Md. Abdur Razzaque, Md. Nazmus Sakib Miazi, Mohammad Mehedi Hassan, Abdulhameed Alelaiwi, Atif Alamri: An energy aware event-driven routing protocol for cognitive radio sensor networks. *Wireless Networks* 22(5): 1523-1536 (2016)

## **Year 2015**

- [j41] Mohammad Shorfuzzaman, Abdulhameed Alelaiwi, Mehedi Masud, Mohammad Mehedi Hassan, M. Shamim Hossain: Usability of a cloud-based collaborative learning framework to improve learners' experience. *Computers in Human Behavior* 51: 967-976 (2015)
- [j40] Mohammad Mehedi Hassan, M. Anwar Hossain, Mohammad Abdullah-Al-Wadud, Tsaheel Al-Mudaihesh, Sultan Alyahya, Abdullah Sharaf Alghamdi: A scalable and elastic cloud-assisted publish/subscribe model for IPTV video surveillance system. *Cluster Computing* 18(4): 1539-1548 (2015)
- [j39] Haoming Zhang, Yong Li, Depeng Jin, Mohammad Mehedi Hassan, Abdulhameed Alelaiwi, Sheng Chen: Buffer-aided device-to-device communication: opportunities and challenges. *IEEE Communications Magazine* 53(12): 67-74 (2015)
- [j38] Mohammad Mehedi Hassan, S. M. Kamruzzaman, Atif Alamri, Ahmad Almogren, Abdulhameed Alelaiwi, Mohammed Abdullah Alnuem, Md. Manowarul Islam, Md. Abdur Razzaque: Design of an energy-efficient and reliable data delivery mechanism for mobile ad hoc networks: a cross-layer approach. *Concurrency and Computation: Practice and Experience* 27(10): 2637-2655 (2015)
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- [j35] Mir Mehedi Ahsan Pritom, Sujun Sarker, Md. Abdur Razzaque, Mohammad Mehedi Hassan, M. Anwar Hossain, Abdulhameed Alelaiwi: A Multiconstrained QoS Aware MAC Protocol for Cluster-Based Cognitive Radio Sensor Networks. *IJDSN* 11: 262871:1-262871:13 (2015)
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- [j33] Muhammad Al-Qurishi, Mabrook Al-Rakhami, Fattoh Al-Qersh, Mohammad Mehedi Hassan, Atif Alamri, Hameed Ullah Khan, Yang Xiang: A Framework for Cloud-Based Healthcare Services to Monitor Noncommunicable Diseases Patient. *IJDSN* 11: 985629:1-985629:11 (2015)
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- [j30] Long Hu, Kai Lin, Mohammad Mehedi Hassan, Atif Alamri, Abdulhameed Alelaiwi: CFSF: On Cloud-Based Recommendation for Large-Scale E-commerce. *MONET* 20(3): 380-390 (2015)
- [j29] Kai Lin, Tianlang Xu, Mohammad Mehedi Hassan, Atif Alamri, Abdulhameed Alelaiwi: An Energy-efficiency Node Scheduling Game Based on Task Prediction in WSNs. *MONET* 20(5): 583-592 (2015)
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- [j24] Chao Chen, Jun Zhang, Yi Xie, Yang Xiang, Wanlei Zhou, Mohammad Mehedi Hassan, Abdulhameed Alelaiwi, Majed A. AlRubaian: A Performance Evaluation of Machine Learning-Based Streaming Spam Tweets Detection. *IEEE Trans. Comput. Social Systems* 2(3): 65-76 (2015)
- [j23] M. Shamim Hossain, Ghulam Muhammad, Biao Song, Mohammad Mehedi Hassan, Abdulhameed Alelaiwi, Atif Alamri: Audio-Visual Emotion-Aware Cloud Gaming Framework. *IEEE Trans. Circuits Syst. Video Techn.* 25(12): 2105-2118 (2015)
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- [j21] Min Chen, Yin Zhang, Yong Li, Mohammad Mehedi Hassan, Atif Alamri: AIWAC: affective interaction through wearable computing and cloud technology. *IEEE Wireless Commun.* 22(1): 20-27 (2015)

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- [j5] Biao Song, Mohammad Mehedi Hassan, Eui-Nam Huh: Delivering IPTV service over a virtual network: A study on virtual network topology. *Journal of Communications and Networks* 14(3): 319-335 (2012)
- [j4] Md. Motaharul Islam, Mohammad Mehedi Hassan, Ga-Won Lee, Eui-Nam Huh: A Survey on Virtualization of Wireless Sensor Networks. *Sensors* 12(2): 2175-2207 (2012)
- [j3] Muhammad Mostafa Monowar, Mohammad Mehedi Hassan, Fuad Bajaber, Musaed Alhussein, Atif Alamri: McMAC: Towards a MAC Protocol with Multi-Constrained QoS Provisioning for Diverse Traffic in Wireless Body Area Networks. *Sensors* 12(11): 15599-15627 (2012)

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- [j1] Mohammad Mehedi Hassan, Biao Song, Eui-nam Huh: A dynamic and fast event matching algorithm for a content-based publish/subscribe information dissemination system in Sensor-Grid. *The Journal of Supercomputing* 54(3): 330-365 (2010)

## **II. Authored Book**

1. Mohammad Mehedi Hassan and Eui-Nam Huh. *Dynamic cloud collaboration Platform: A Market Oriented Approach*. SpringerBrief Book Series, Online, Springer, October, 2012
2. Muhammad Al-Qurishi, Mohammad Mehedi Hassan, Majed Alrubaian, Atif Alamri, *Multimedia and Cloud Computing: Convergence, Architecture and Applications*, KSU Press, 2017

## **III. Book Chapter**

1. Mohammad Mehedi Hassan and Eui-Nam Huh. A Novel Market-Oriented Dynamic Collaborative Cloud Service Platform. *Handbook of Cloud Computing*, Springer publication, 1<sup>st</sup> Edition, 2010, ISBN: 978-1-4419-6523-3, October 07, 2010
2. Mohammad Mehedi Hassan and Eui-Nam Huh. Resource Management for Data Intensive Clouds Through Dynamic Federation: A Game Theoretic Approach. *Handbook of Data Intensive Computing*, Springer publication, November, 2011

## **IV. Papers in Refereed Conference Proceedings**

- [c33] Walaa N. Ismail, Mohammad Mehedi Hassan, Giancarlo Fortino: Productive-associated Periodic High-utility itemsets mining. *ICNSC 2017*: 637-642
- [c32] Mohammad Mehedi Hassan, Majed Alrubaian and Atif Alamri, Effective QoS-aware Novel Resource Allocation Model for Body Sensor-Integrated Cloud platform. In *Proceedings of the 18th IEEE International Conference on Advanced Communications Technology*, Phoenix Park, Pyeongchang, South Korea, Feb 2016 (**Outstanding Paper Award**)
- [c31] Majed A. AlRubaian, Muhammad Al-Qurishi, Mabrook Al-Rakhani, Mohammad Mehedi Hassan, Atif Alamri: CredFinder: A real-time tweets credibility assessing system. *ASONAM 2016*: 1406-1409
- [c30] Diana AlOmari, Mohammad Mehedi Hassan: Predicting Telecommunication Customer Churn Using Data Mining Techniques. *IDCS 2016*: 167-178,
- [c29] Mohammad Mehedi Hassan, Mohammad Abdullah-Al-Wadud, Giancarlo Fortino: A socially optimal resource and revenue sharing mechanism in cloud federations. *CSCWD 2015*: 620-625
- [c28] Jemal H. Abawajy, Mohammad Mehedi Hassan: Reliability-Aware Distributed Computing Scheduling Policy. *ICA3PP (Workshops and Symposiums) 2015*: 627-632
- [c27] Syed Khairuzzaman Tanbeer, Mohammad Mehedi Hassan, Majed A. AlRubaian, Byeong-Soo Jeong: Mining Regularities in Body Sensor Network Data. *IDCS 2015*: 88-99 2014
- [c26] Chin-Feng Lai, Han-Chieh Chao, Zong-Ruei Tsai, Ying-Hsun Lai, Mohammad Mehedi Hassan: A Hybrid Remote Rendering Approach for Graphic Applications on Cloud Computing. *CloudComp 2014*: 3-17 (**Best paper Award**)
- [c25] Mohammad Mehedi Hassan, Atif Alamri: Virtual Machine Resource Allocation for Multimedia Cloud: A Nash

Bargaining Approach. FNC/MobiSPC 2014: 571-576

- [c24] Mohammad Mehedi Hassan, Muhammad Al-Qurishi, Biao Song, Atif Alamri: Efficient Resource Provisioning for Mobile Media Traffic Management in a Cloud Computing Environment. ICA3PP (1) 2014: 352-363
- [c23] Biao Song, Yuan Tian, Mohammad Mehedi Hassan, Atif Alamri, M. Shamim Hossain, Abdulhameed Alelaiwi, Bingyin Zhou: Novel remote display method for multimedia cloud. ICME Workshops 2014: 1-6
- [c22] Mohammad Mehedi Hassan, Biao Song, M. Shamim Hossain, Atif Alamri: Efficient Resource Scheduling for Big Data Processing in Cloud Platform. IDCS 2014: 51-63
- [c21] Noura Alhakbani, Mohammad Mehedi Hassan, M. Anwar Hossain, Mohammed Abdullah Alnuem: A Framework of Adaptive Interaction Support in Cloud-Based Internet of Things (IoT) Environment. IDCS 2014: 136-146
- [c20] Mohammad Mehedi Hassan, Hanouf Saad Albakr, Hmood Al-Dossari: A Cloud-Assisted Internet of Things Framework for Pervasive Healthcare in Smart City Environment. EMASC@MM 2014: 9-13 2013
- [c19] M. Shamim Hossain, Mohammad Mehedi Hassan, Atif Alamri: An exergame framework for obesity monitoring and management. HAVE 2013: 7-12
- [c18] Mohammad Mehedi Hassan, M. Anwar Hossain, Yousuf Aldukhayyil, Atif Alamri, Muhammad Al-Qurishi, M. Shamim Hossain, Dewan Tanvir Ahmed, Abdulmotaieb El-Saddik: Health monitoring of obese people through a cloud-based serious game framework. ICME Workshops 2013: 1-4
- [c17] M. Shamim Hossain, Mohammad Mehedi Hassan: An hybrid ACO-based approach for media service composition in video surveillance platform. ICME Workshops 2013: 1-6
- [c16] Mohammad Mehedi Hassan, Atif Alamri, Md. Abdur Razzaque: Toward Efficient Packet Buffering and Congestion Control Approaches for Reliable Data Delivery in Mobile Ad Hoc Network. IDCS 2013: 65-77, 2012
- [c15] M. Shamim Hossain, Mohammad Mehedi Hassan, Muhammad Al-Qurishi, Abdullah S. Alghamdi: Resource Allocation for Service Composition in Cloud-based Video Surveillance Platform. ICME Workshops 2012: 408-412, 2011
- [c14] Mohammad Mehedi Hassan, Biao Song, Eui-nam Huh: Distributed Resource Allocation Games in Horizontal Dynamic Cloud Federation Platform. HPCC 2011: 822-827
- [c13] Mohammad Mehedi Hassan, Biao Song, Eui-nam Huh: Game-Based Distributed Resource Allocation in Horizontal Dynamic Cloud Federation Platform. ICA3PP (1) 2011: 194-205
- [c12] Biao Song, Mohammad Mehedi Hassan, Eui-nam Huh: An IPTV service delivery model using novel virtual network topology. ICUIMC 2011: 8, 2010
- [c11] Biao Song, Mohammad Mehedi Hassan, Eui-nam Huh: A Novel Heuristic-Based Task Selection and Allocation Framework in Dynamic Collaborative Cloud Service Platform. CloudCom 2010: 360-367
- [c10] Biao Song, Mohammad Mehedi Hassan, Eui-nam Huh: A Novel Cloud Market Infrastructure for Trading Service. ICCSA Workshops 2009: 44-50
- [c9] Mohammad Mehedi Hassan, Biao Song, Seungmin Han, Eui-nam Huh, Changwoo Yoon, Won Ryu: Multi-objective Optimization Model for Partner Selection in a Market-Oriented Dynamic Collaborative Cloud Service Platform. ICTAI 2009: 637-644
- [c8] Mohammad Mehedi Hassan, Biao Song, Eui-nam Huh: A framework of sensor-cloud integration opportunities and challenges. ICUIMC 2009: 618-626
- [c7] Sang-Ho Na, Kyu-Jin Kim, Mohammad Mehedi Hassan, Eui-nam Huh: Identity-based secure protocol scheme for wireless sensor network. Int. Conf. Interaction Sciences 2009: 555-560
- [c6] Seungmin Han, Mohammad Mehedi Hassan, Changwoo Yoon, Eui-nam Huh: Efficient service recommendation system for cloud computing market. Int. Conf. Interaction Sciences 2009: 839-845
- [c5] Mohammad Mehedi Hassan, Biao Song, Changwoo Yoon, Hyun Woo Lee, Eui-nam Huh: A Novel Market Oriented Dynamic Collaborative Cloud Service Infrastructure. SERVICES II 2009: 9-16, 2008

- [c4] Mohammad Mehedi Hassan, Ki-Moon Choi, Seungmin Han, Youngsong Mun, Eui-nam Huh: A Grid-based Context-aware Recommender System for Mobile Healthcare Applications. GCA 2008: 100-106
- [c3] Mohammad Mehedi Hassan, Bo-Hyun Seok, Ki-Moon Choi, Eui-Nam Huh: An Efficient Event Matching Algorithm for Information Dissemination on Grid. ICCSA Workshops 2008: 26-32
- [c2] Mohammad Mehedi Hassan, Eui-Nam Huh, Jai-Ho Oh, Kyoung-Min Lee, Ok-Hwan Byeon: A Resource Utilization Framework Using Partial State Information on Grid. ICCSA Workshops 2008: 52-59
- [c1] Ki-Moon Choi, Mohammad Mehedi Hassan, Eui-Nam Huh: Propagation Service Decision Method for Web Services Composition in u-Lifecare System. ICCSA Workshops 2008: 84-91

## **G. Professional Service**

### **I. Editorial**

- **Associate Editor**, IEEE Access, 2017 [ISI-IF: 1.3]
- **Guest Editor**, Special Issue on “*Advances in Next Generation Multimedia Services and Applications: Impact of Cloud and Social Media*”, Multimedia Tools and Applications, Springer, 2016
- **Guest Editor**, Special Issue on “*Enhancing Internet and Distributed Computing Systems with Wireless Sensor Networks*”, International Journal of Distributed Sensor Networks, 2015
- **Guest Editor**, Special Issue on “*Emerging Sensor-Cloud Technology for Pervasive Services and Applications*”, International Journal of Distributed Sensor Networks, 2015

### **II. TPC**

- IEEE Consumer Communications & Networking Conference (CCNC), USA, January 8-11, 2017
- IEEE International Conference on Networking, Sensing and Control (ICNSC'2016) to be held in May 16-17, 2017, Italy.
- ACM BodyNets,, Dec 15-16, Italy. 2016
- IEEE ICC Workshop on Next Generation Green ICT, UK, 2015
- IEEE ScalCom, China, 2015
- IC Engineering & Computational Innovative Sciences (ENCINS'), in Casablanca, Morocco. 2015
- The IEEE ICC Workshop on Energy Efficiently in Wireless Networks (D2Nets), Budapest, Hungary, 2013
- The IEEE ICME 3<sup>rd</sup> Intl. workshop on Advances in Automated Multimedia Surveillance for Public Safety (AAMS-PS), California, USA, 2013
- International Conference of Distributed Computing Systems (IDCS), China, 2013
- The 2<sup>nd</sup> IEEE ICME Intl Workshop on Multimedia Services and Technologies for E-health (MUST-EH 2012) , Melbourne, Australia, 2012
- The 1<sup>st</sup> ACM Multimedia Intl Workshop on Cloud-Based Multimedia Applications and Services for E-health (CBMAS-EH ), Nara, Japan, 2012
- IADIS International Conference on Theory and Practice in Modern Computing (TPMC), Lisbon, Portugal on 17-19 July, 2012
- IEEE International Conference on Advanced Communicating Technology (ICACT), 2011 South Korea

- International Conference on Computational Science and Its Application (ICCSA), LNCS, 2008
- International Conference of Distributed Computing Systems (IDCS), 2011, Melbourne, Australia

### **III. Track Chair**

- Track Chair, Parallel and Distributed Systems Architecture, The 16th IEEE International Conference on High Performance Computing and Communications (HPCC 2014), France, 2014
- Track Chair, Parallel and Distributed Systems Architecture, The 15th IEEE International Conference on High Performance Computing and Communications (HPCC 2013), China, 2013

### **IV. Reviewer of Technical Papers (Selective)**

1. IEEE Transactions on Parallel and Distributed Computing
2. IEEE Transactions on Instrumentations and Measurements
3. IEEE Transactions on Information Technology in Biomedicine
4. IEEE Transaction on Dependable and Secure Computing
5. IEEE Sensors Journal
6. IEEE Communication Magazine
7. IEEE Systems Journal
8. IEEE Transactions on Multimedia
9. Information Sciences
10. IEEE Transaction on Service Computing
11. Future Generation Commuter Systems

### **H. Important Presentations**

- “**Publishing papers in ISI-Indexed Journals: Tips and Tricks**”, Faculty Research Seminar at College of Computer and Information Sciences (CCIS), King Saud University, 2016
- “**How to Read & Write Good Technical Papers?**”, Graduate Students Research Seminar at CCIS, KSU, 2015

### **I. Teaching**

#### **• Courses Taught at KSU**

- IS 370: Data Transmission and Computer Networks (B.Sc. Course)
- IS 224: Visual Programming with Java (B.Sc. Course)
- IS 491: Selected Topics in IS- Cloud Infrastructure and Services, EMC (B.Sc. Course)
- IS 594: Selected Topics in Information Security- Cloud Security (MS Course)
- IS 536: Information Security Governance (MS Course)
- IS 623: Data Warehouses and Knowledge Discovery (PhD Course)
- IS 698: Advanced Selected Topics in IS (PhD Course)
- IS 522: Enterprise Application Development (MS Course)
- IS 537: Advanced Artificial Intelligence (MS Course)
- IS 463: Data Mining (B. Sc. Course)

#### **• Supervising**

- **MS Thesis Supervision**
  - Tsaheel Mohammad, IS Department, CCIS, King Saud University, (Completed), 2016
  - Diana Alomari, IS Department, CCIS, King Saud University, (Ongoing), 2016
  - Hanouf Albakr, IS Department, CCIS, King Saud University, (Ongoing), 2016

➤ **MS Thesis Co-Supervision**

- Mohamed Mustafa, IS Department, CCIS, King Saud University, (Ongoing), 2016
- Amit Kumar Das, CSE Department, Dhaka University, Bangladesh (Completed), 2016
- Iffat Anjum, CSE Department, Dhaka University, Bangladesh (Completed), 2015
- Asma Enayet, CSE Department, Dhaka University, Bangladesh (Completed), 2015
- Tamal Adhikary, CSE Department, Dhaka University, Bangladesh (Completed), 2015
- Nusrat Mehajabin, CSE Department, Dhaka University, Bangladesh (Completed), 2015
- Madiha Tabassum, CSE Department, Dhaka University, Bangladesh (Completed), 2015
- Mahbub-E-Khoda, CSE Department, Dhaka University, Bangladesh (Completed), 2014
- Md. Manowarul Islam, CSE Department, Dhaka University, Bangladesh (Completed), 2013
- Yousuf Aldukhayyil IS Department, CCIS, King Saud University, (Completed), 2013
- Khalid Alrayes, IS Department, CCIS, King Saud University, (Completed), 2013
- AbdulAziz Alorajje, IS Department, CCIS, King Saud University, (Completed), 2013

➤ **MS Project Supervision**

- Mohammad Asiri, IS Department, CCIS, King Saud University, (Ongoing), 2016
- Abeer Mohammad, IS Department, CCIS, King Saud University, (Ongoing), 2016

➤ **PhD Thesis Co-supervision**

- Majed Alrubaiyan, “A Framework to Assessing Credibility in social network”, Graduated in 2016
- Abdullah Alfifi, “A framework to Select the best Cloud Services in KSA”, expected to graduate in 2017
- Noura Alhakbani, “A semantic publish subscribe model for Internet of Things”, expected to graduate in 2017

➤ **BS Projects**

- Yousef alkhamsi, Nasser alyahya, Fares alqahtani. “Driving School Management System”, CCIS, KSU, Ongoing, 2016
- Ziyad Alshathrey , Abdulkarim Alotaibi Improving the accessibility of research related activities in the CCIS”, KSU, Completed, 2015
- Faris Alharthi, Waleed Alamri. “A Smart Coffee Shop Management System”, CCIS, KSU Completed, 2015